Coral

FOCUSED ON APPLICATION HVAC

Unit information

Chiller Model	CA2-150-4210
Width (mm)	2250
Length (mm)	4790
Height (mm)	2520
Shipping Weight (kg)	5240
Operating Weight (kg)	5320
Capacity Control	Stepless Control
Starting Control	Y-△
Operating Range	T1
Refrigerant	R134a

Performance Information(Cooling Condition)

Cooling Capacity (TR)	***150***	***528 kW***
Entering Water Temp (°C)	***12***	***53.60 F°***
Leaving Water Temp (°C)	***7***	***44.60 F°***
Water Flow (m3/h)	***91***	
Ambient Temperature (DB) (°C)	***35***	***95.00 F°***
Ambient Temperature(WB) (°C)	***/***	
Input Power (kW)	***164.6***	
IPLV/NPLV.SI(W/W)	***4.58***	
COP (W/W)	***3.21***	

Water Side Heat Exchanger Information

Fluid Type	***Fresh Water***
Concentration	***/***
Nozzle Type	***Victaulic Couping***
Water Volume(L)	***101***
Heat Exchanger Type	***Flooded Shell-and-Tube***
Fouling Factor ((m2.K)/kW)	***0.0180***
Nozzle Size(DN)	***150***
Water Pressure Drop (kPa)	***68***

Compressor Information

Type	***Semi-Hermetic Screw***
Quantity	***2***
Capacity Regulating Range	***12.5%-100%***
Oil Charging Volume(L)	***48***
Brand	***BITZER***
Circuit	***2***
Oil Model	***BSE170***

Air Side Heat Exchanger Information

Type	***Fin-Tube***
Fan Quantity	***8***
Air Flow(m3/h)	***196000***
Fan Power Input(kW)	***17.6***

Electrical Information

Power Supply	***460V~3N~60Hz***
Rating Current (A)	***242***
Max. Starting Current (A)	***485***

****Garantía 2 años en partes y en compresores***
**** Resortes anti-vibratorios***
****Refrigerante ecológico***

Coral

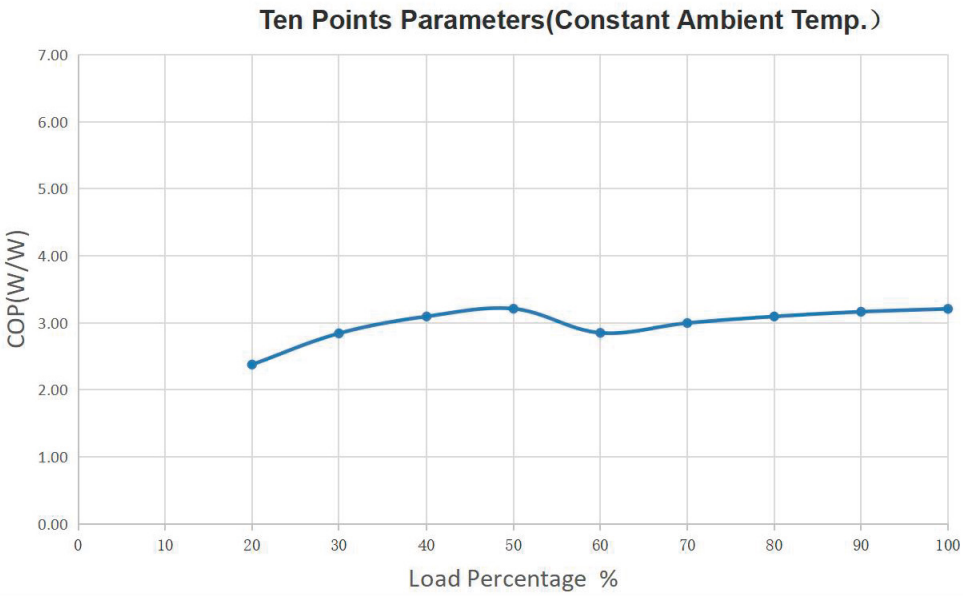
IPLV/NPLV Points													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	528	164.6	0.98	3.21	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
75	396	101.8	0.81	3.89	68	27.00	80.6	/	/	10.70	51.26	7.00	44.6
50	264	51.2	0.61	5.16	68	19.00	66.2	/	/	9.50	49.1	7.00	44.6
25	132	26.9	0.64	4.91	68	13.00	55.4	/	/	8.20	46.76	7.00	44.6

IPLV.SI/NPLV.SI=0.01*A+0.42*B+0.45*C+0.12*D=4.576 w/w
A=EER At 100%; B=EER At 75%; C=EER At 50%; D=EER At 25%;

Soft in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Using Vapor Compression Cycle , which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI).

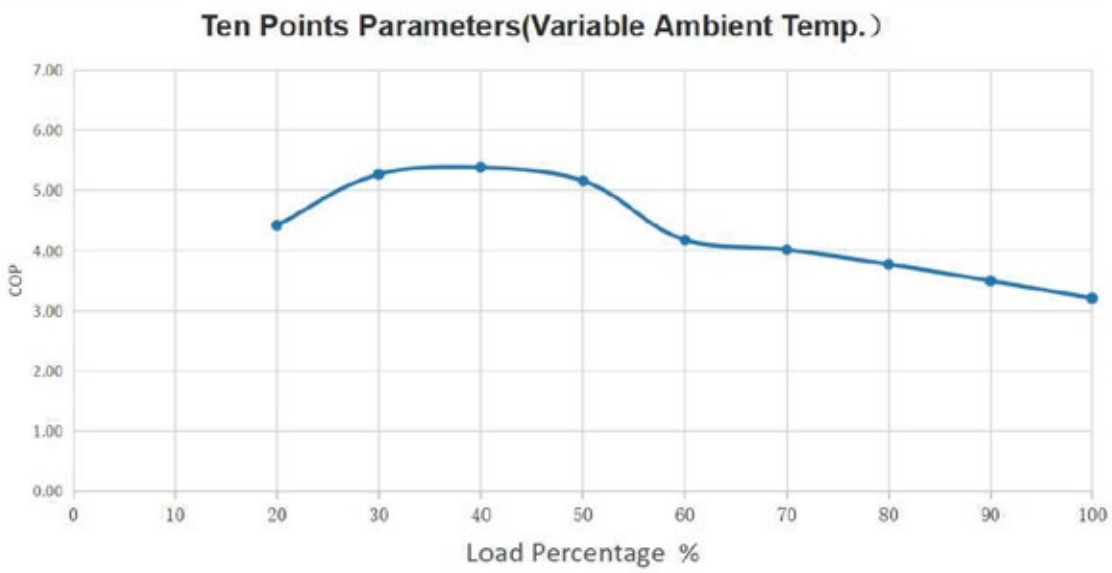
Ten Points Parameters (Constant Ambient Temp.)													
Load	Cooling capacity	Input Power	Cooling kW/Ton	Cooling COP	Evap. WPD	DBT	DBT	WBT	WBT	EEWT	EEWT	ELWT	ELWT
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	528	164.6	0.98	3.21	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	475	150.1	1.00	3.16	68	35.00	95.00	/	/	11.50	52.7	7.00	44.6
80	422	136.4	1.02	3.09	68	35.00	95.00	/	/	11.00	51.8	7.00	44.6
70	370	123.5	1.05	3.00	68	35.00	95.00	/	/	10.50	50.9	7.00	44.6
60	317	111.2	1.11	2.85	68	35.00	95.00	/	/	10.00	50	7.00	44.6
50	264	82.3	0.98	3.21	68	35.00	95.00	/	/	9.50	49.1	7.00	44.6
40	211	68.2	1.02	3.09	68	35.00	95.00	/	/	9.00	48.2	7.00	44.6
30	158	55.6	1.11	2.84	68	35.00	95.00	/	/	8.50	47.3	7.00	44.6
20	106	44.6	1.33	2.38	68	35.00	95.00	/	/	8.00	46.4	7.00	44.6
10	53	/	/	/	68	35.00	95.00	/	/	7.50	45.5	7.00	44.6

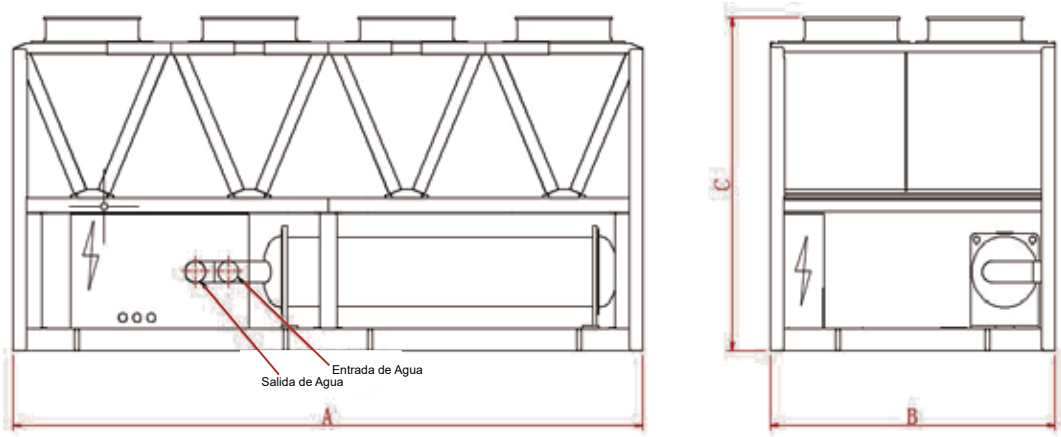
For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;
For double COMP chiller, the 10% load are out of running range, so the data is only for reference



Ten Points Parameters (Variable Ambient Temp)													
Load	*Cooling capacity*	*Input Power*	*Cooling kW/Ton*	*Cooling COP*	*Evap. WPD*	*DBT*	*DBT*	*WBT*	*WBT*	*EEWT*	*EEWT*	*ELWT*	*ELWT*
%	Kw	Kw	KW/TON	W/W	kpA	C°	F°	C°	F°	C°	F°	C°	F°
100	528	164.6	0.98	3.21	68	35.00	95.00	/	/	12.00	53.6	7.00	44.6
90	475	135.8	0.90	3.50	68	31.80	89.24	/	/	11.50	52.7	7.00	44.6
80	422	111.9	0.84	3.77	68	28.60	83.48	/	/	11.00	51.8	7.00	44.6
70	370	92.2	0.79	4.01	68	25.40	77.72	/	/	10.50	50.9	7.00	44.6
60	317	75.9	0.76	4.18	68	22.20	71.96	/	/	10.00	50	7.00	44.6
50	264	51.2	0.61	5.16	68	19.00	66.20	/	/	9.50	49.1	7.00	44.6
40	211	39.2	0.59	5.38	68	15.80	60.44	/	/	9.00	48.2	7.00	44.6
30	158	30	0.60	5.27	68	13.00	55.40	/	/	8.50	47.3	7.00	44.6
20	106	24	0.71	4.42	68	13.00	55.40	/	/	8.00	46.4	7.00	44.6
10	53	/	/	/	68	13.00	55.40	/	/	7.50	45.5	7.00	44.6

For single COMP chiller, the 10% and 20% load are out of running range, so the data is only for reference;
For double COMP chiller,the 10% load are out of running range, so the data is only for reference





Dimension(mm)	A	B	C
	4790	2250	2520

NOTE:The outline drawing is only for reference.